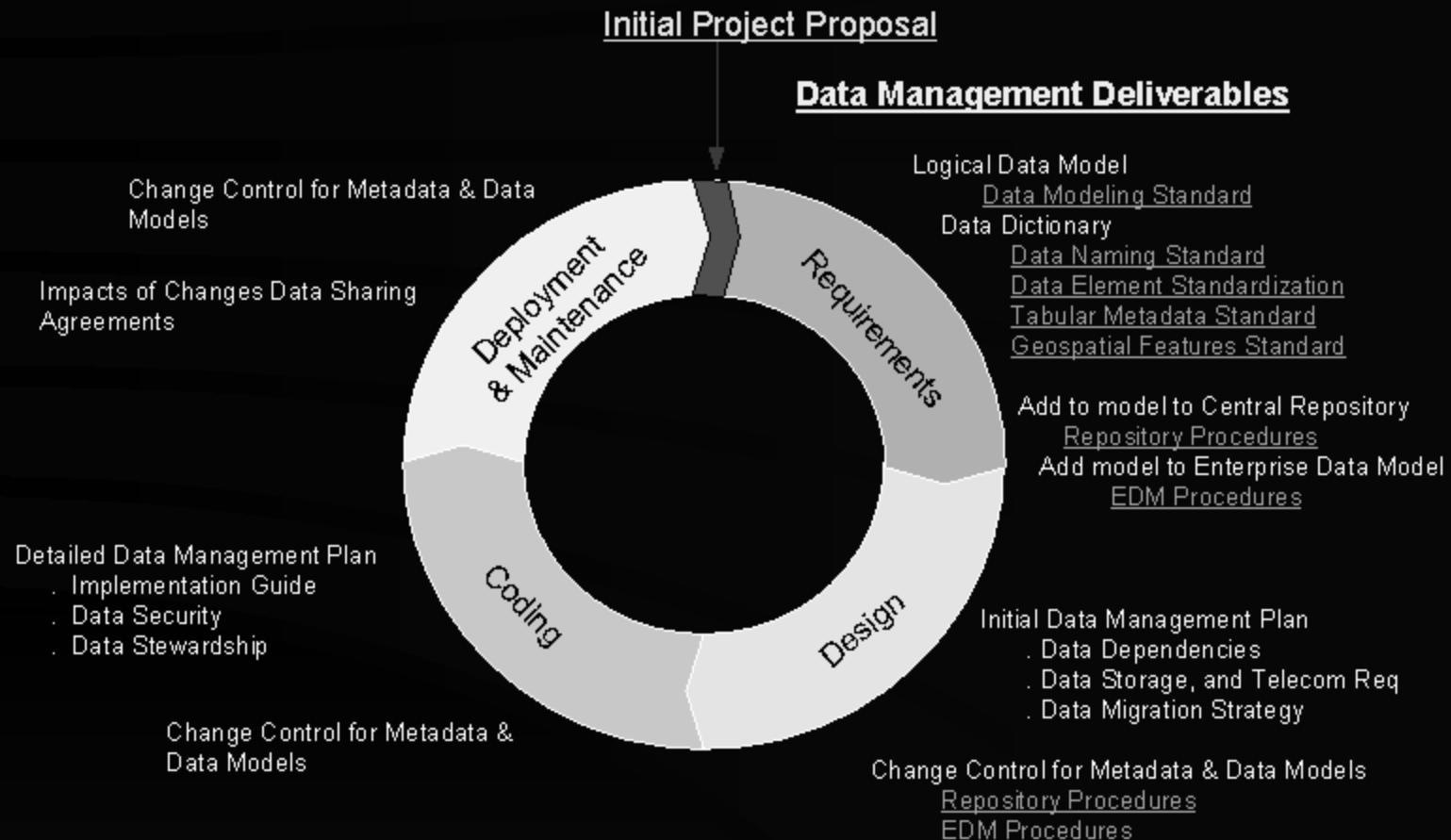


USDA Service Center Metadata An Overview

Current Data Team Focus

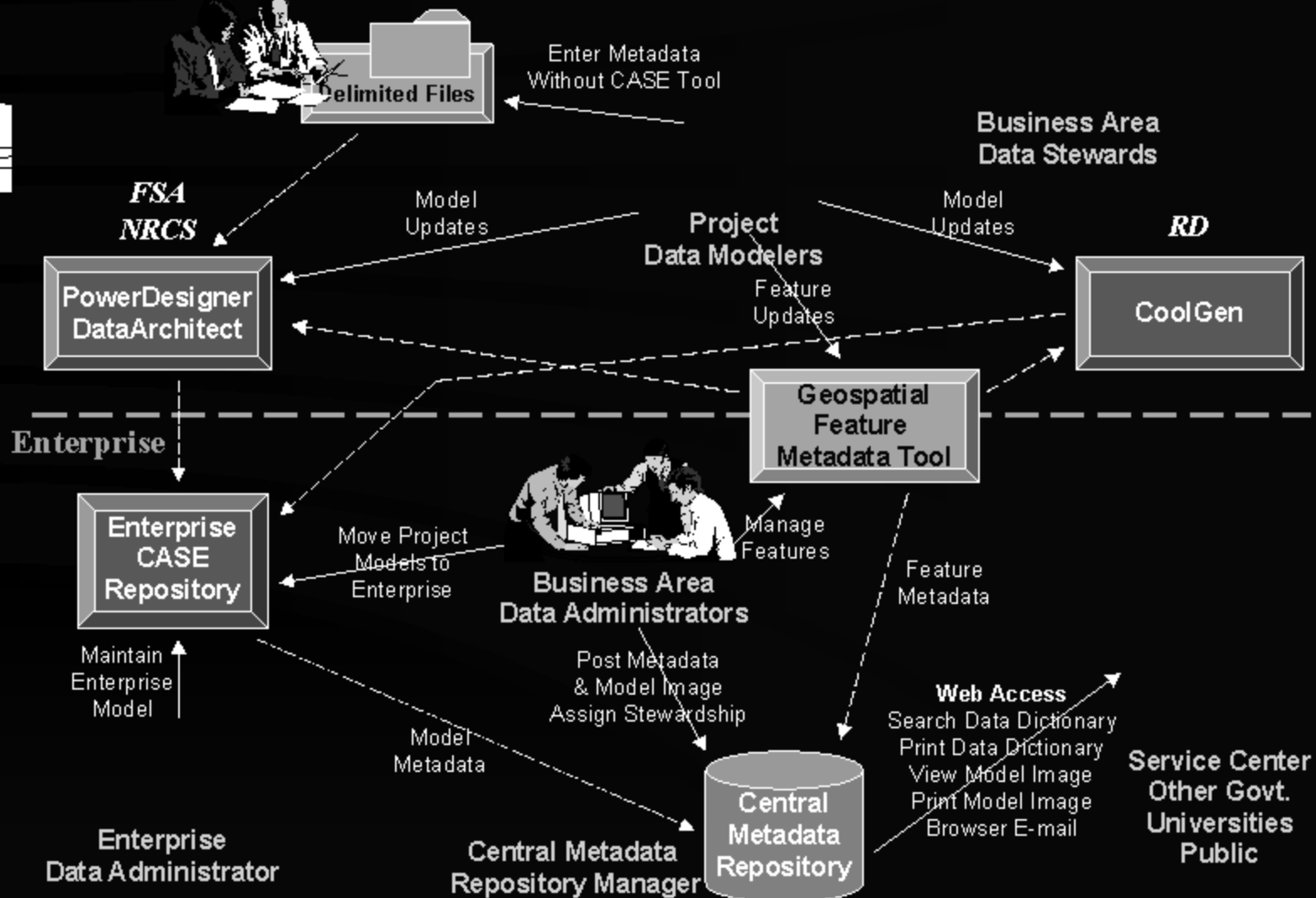
- Data management life cycle
- Data management standards
- Software development and metadata management tools
- Metadata repository management
- Data management roles and responsibilities
- Data warehouse strategy

Data Management in the Project Lifecycle





SC Data Administration Program



February 23, 1999

Service Center Data Administration Program

Metadata Categories

Systems

- Metadata about the data and software owned and used by a system

Geospatial Feature Catalog

- Metadata about geospatial features (maps)

Datastores

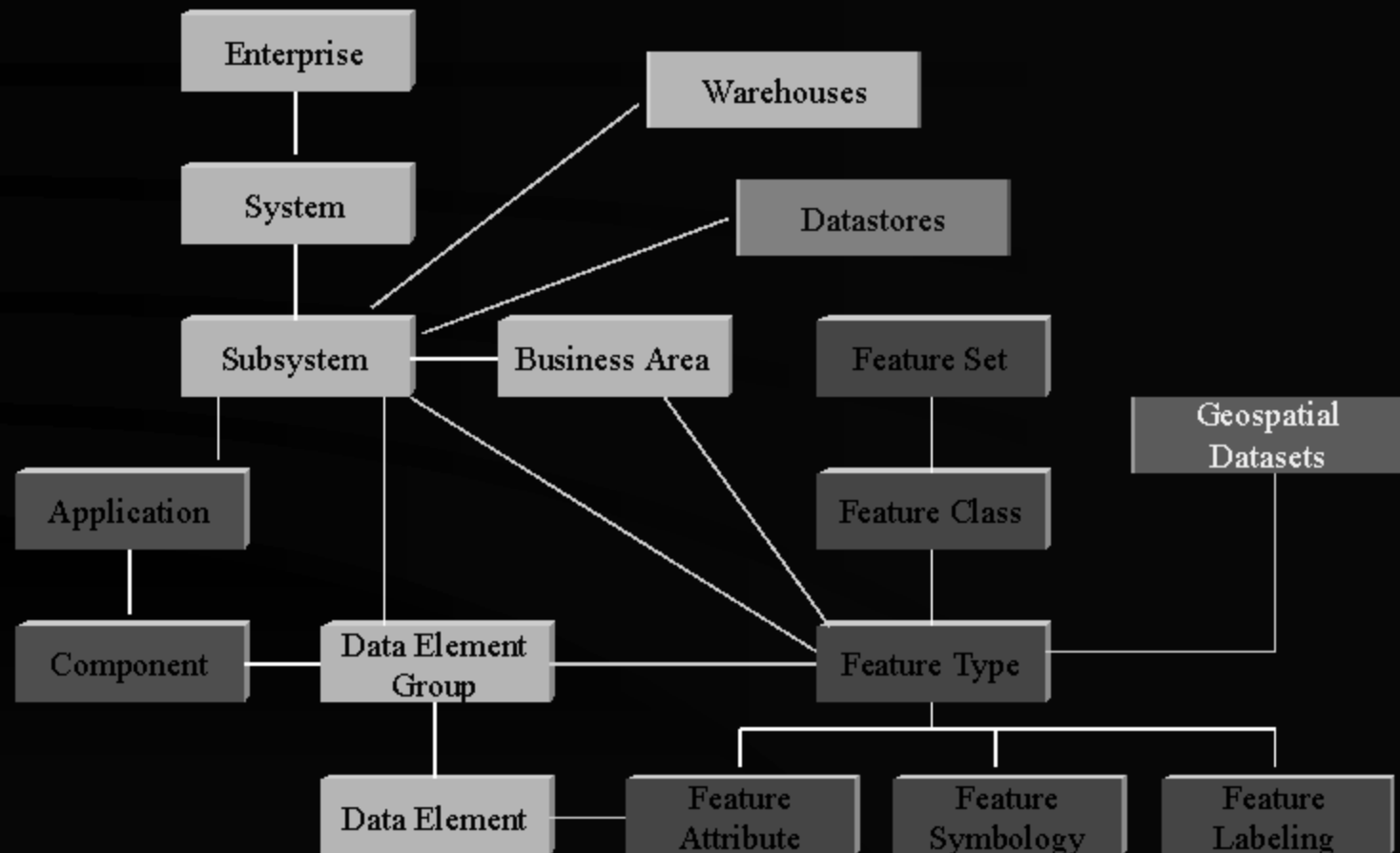
Geospatial Datasets

- Metadata about operational datastores (of primary interest is geospatial datasets, but also accommodates other types such as relational)

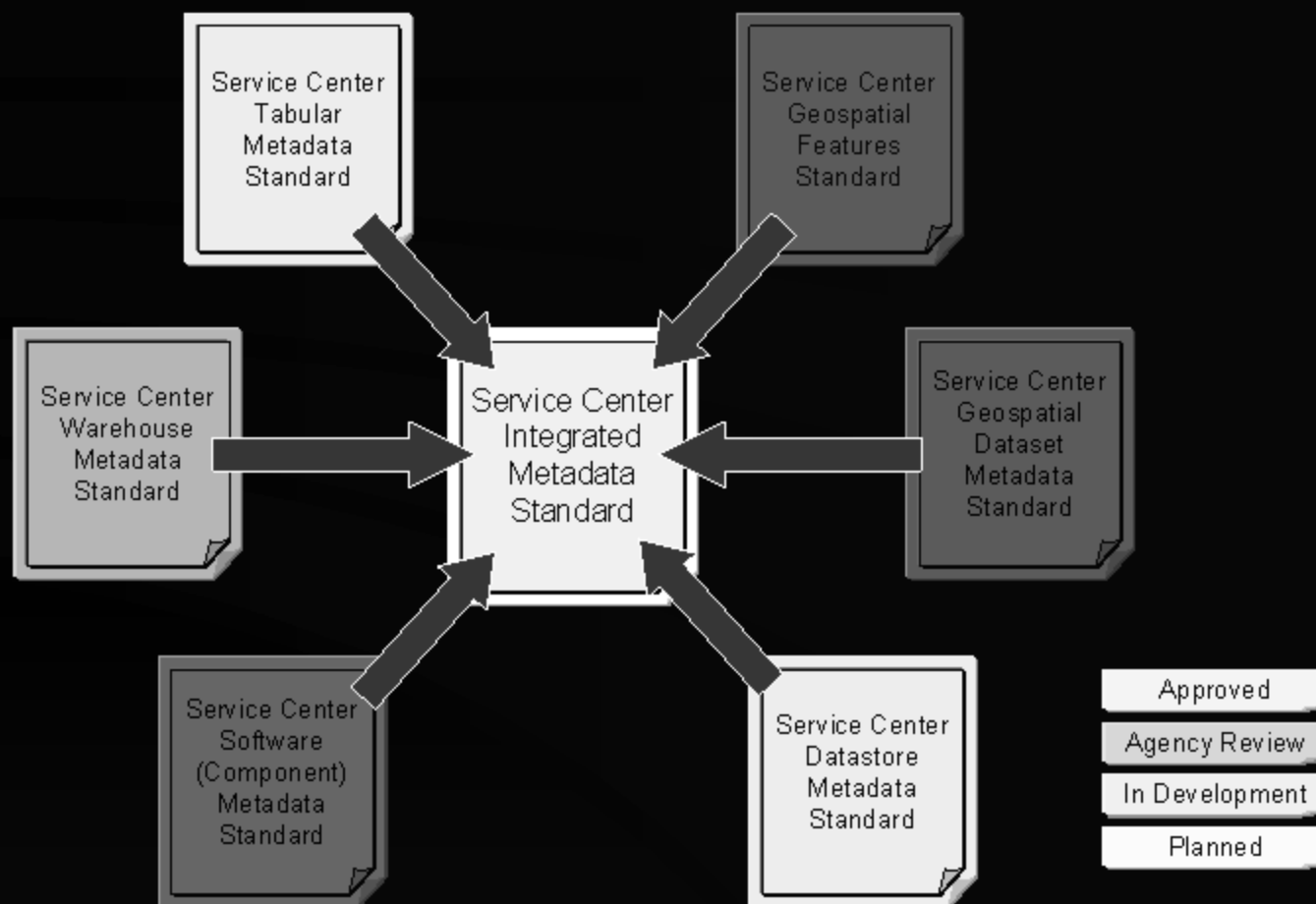
Warehouses

- Metadata to support Data warehouses

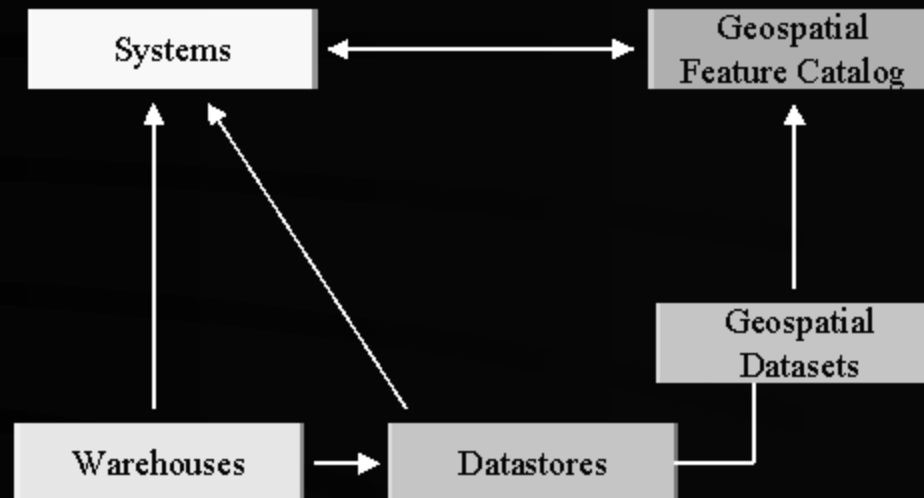
Integrated Metadata Model



Integrated Metadata Standards

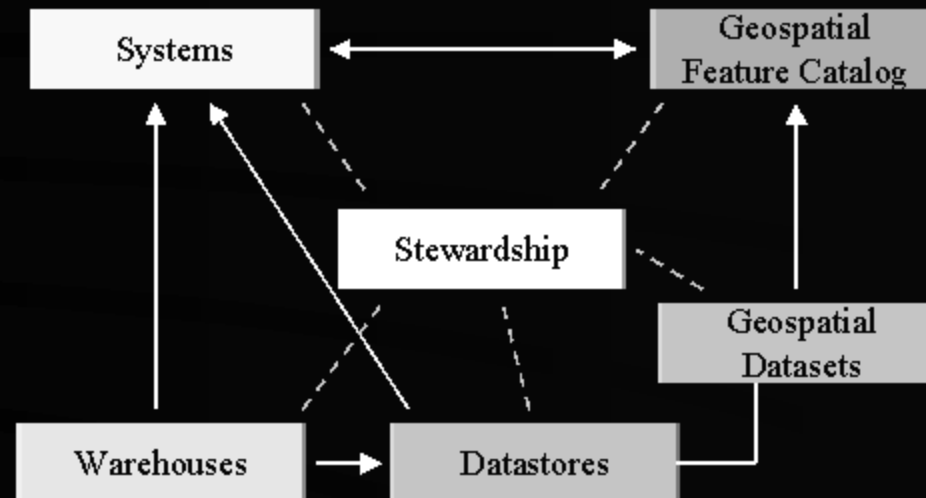


Integrated Metadata



- Geospatial datasets are linked to geospatial feature and attribute metadata
- Geospatial features are linked to associated tabular metadata
- Systems are linked to geospatial features used by the system
- Datastores are linked to the owning system
- Warehouses are linked to the source systems and datastores

Stewardship

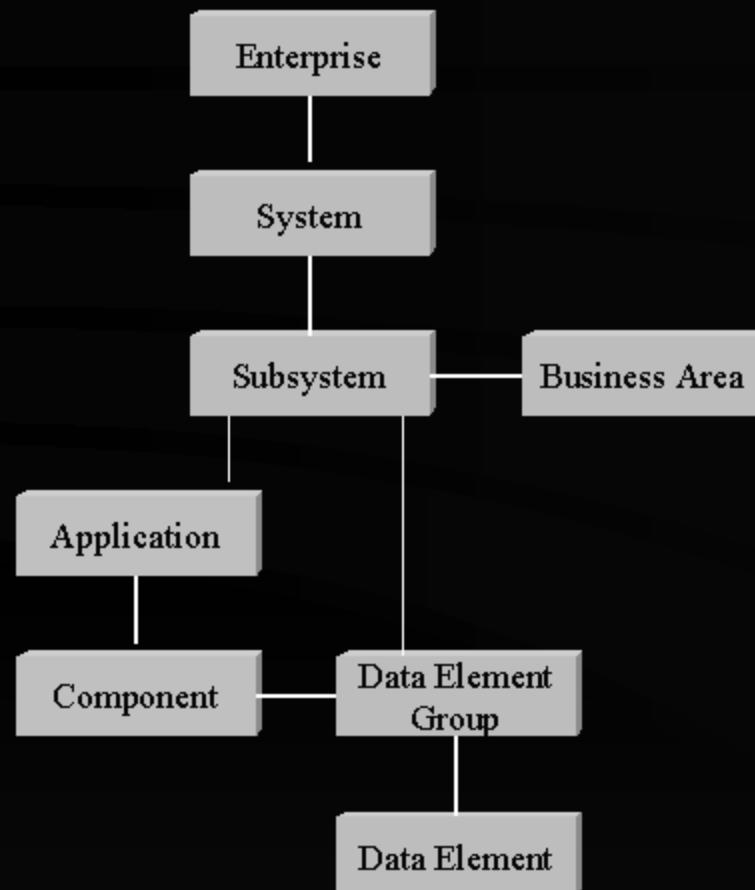


- Stewardship metadata is collected for items in all metadata categories
 - Systems, Geospatial Features, Datastores, Data Elements, etc.
- Stewards include those who are responsible for metadata, data, software
 - Executive Sponsors, Data Stewards, System Managers

Metadata Standards

- Individual Metadata Standards
 - Defines standard for a given category of metadata
 - Based on industry (or other existing) standards where appropriate
 - Each approved as individual standard
- Integrated Metadata Standard
 - Defines metamodel for integrating all metadata categories
 - Used by data team to define repository

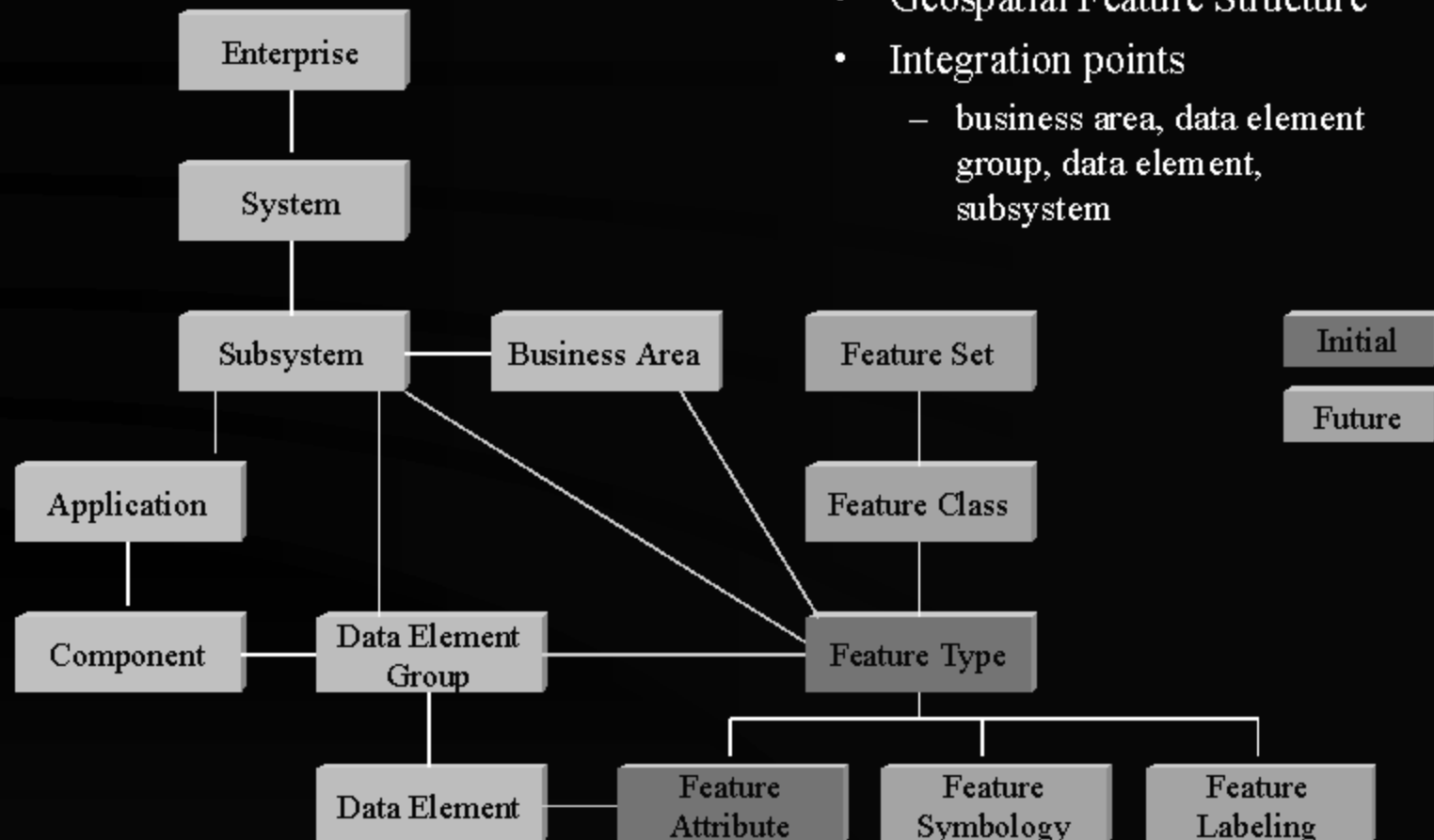
A Closer Look At Systems



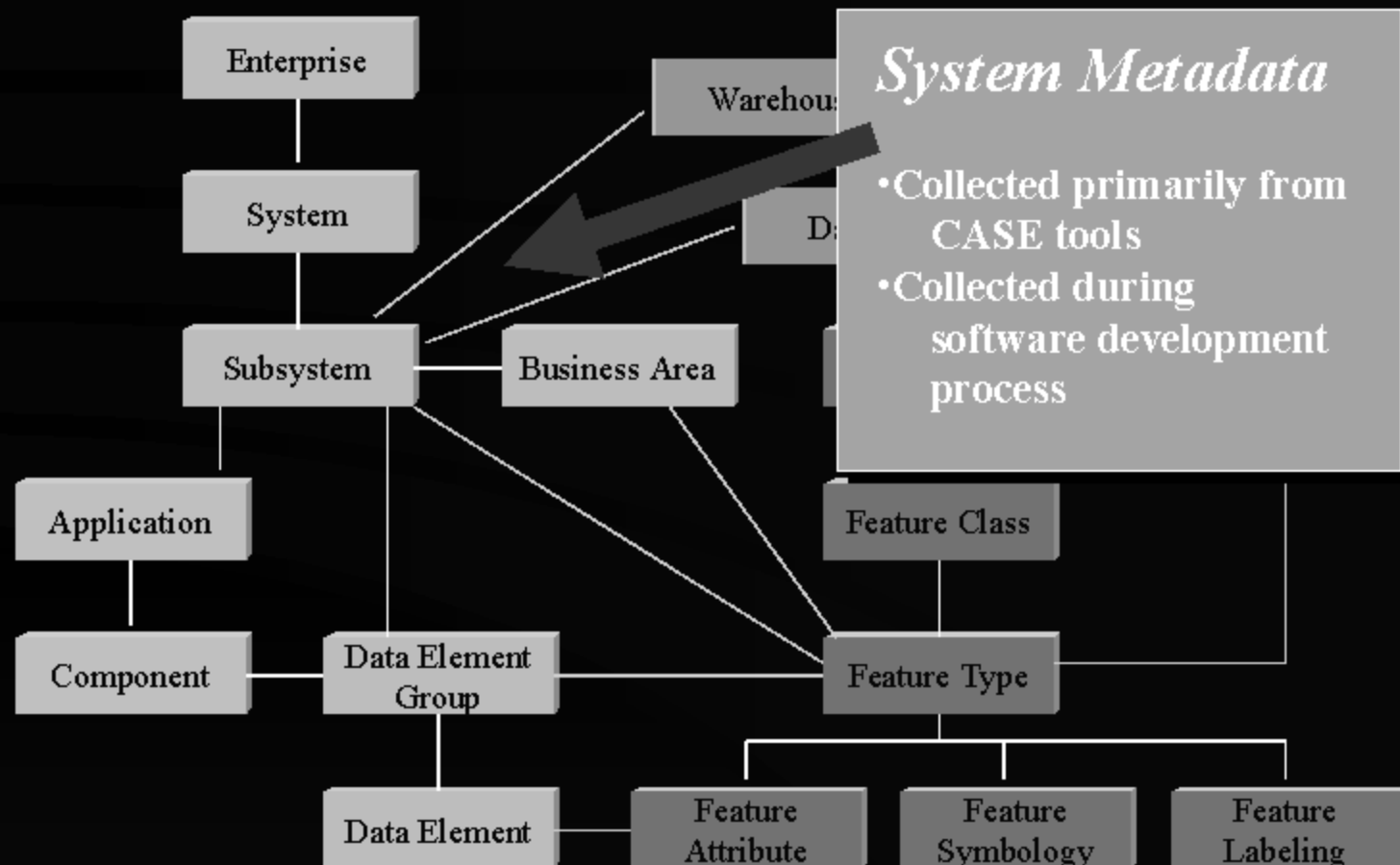
- Core system structure
 - Data dependencies
 - Central Repository - Phase I
- Add in software Metadata
 - Actual detail structure still under construction

Integrating Geospatial Features

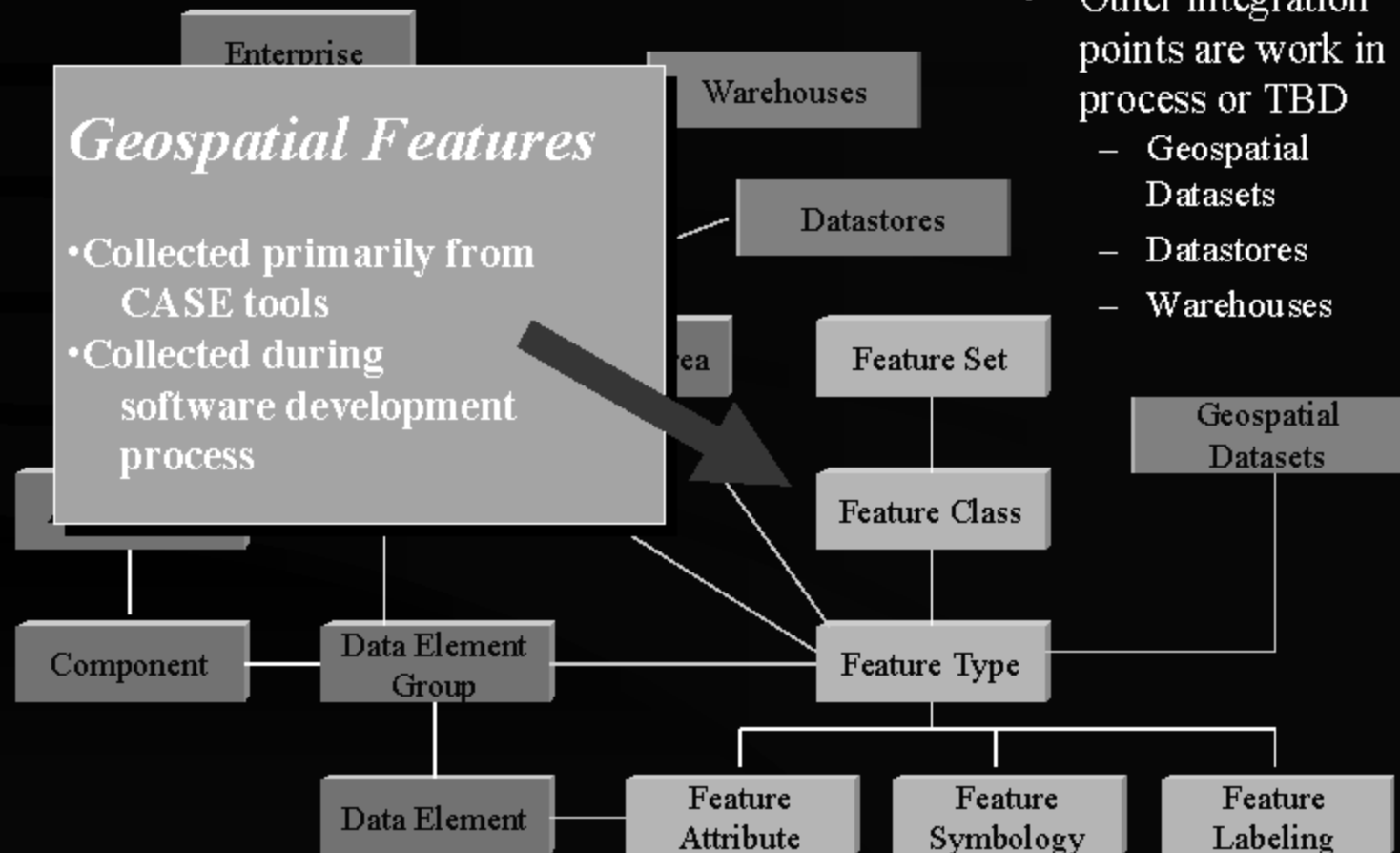
- Geospatial Feature Structure
- Integration points
 - business area, data element group, data element, subsystem



Data Collection Tools



Other Integration



- Other integration points are work in process or TBD
 - Geospatial Datasets
 - Datastores
 - Warehouses

Collection Tools & Processes

- **Tabular Metadata**
 - Collected primarily from CASE Tools
 - Collected during software development process
- **Geospatial Feature Metadata** (feature types, attributes, symbology)
 - Tool evaluation/selection underway (FGDC/custom)
 - Collected during software development process
- **Geospatial Dataset Metadata** (FGDC)
 - Tool evaluation/selection underway
 - Collected as part of data stewardship process
- **Other Metadata**
 - Tools and collection processes still TBD

USDA Service Center Metadata An Overview